SAMSUNG

SERIES 4

LED TV
user manual

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Still image warning

Avoid displaying still images (like jpeg picture files) or still image element (like TV programme logo, panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

For India Only

This product is RoHS compliant.

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

This marking on the product & accessories literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources House hold users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business user should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed other commercial wastes for disposal.

For more information on safe disposal and recycling visit our website www.samsung.com/in or contact our helpline number - 18002668282, 180030008282

For personal and non-commercial use only.
Usage is subject to following the guidelines in the User Manual and may not be available in all regions.

BN68-06944F-00

Contact SAMSUNG WORLD WIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
VIETNAM	1800 588 889	www.samsung.com/vn/support
THAILAND	0-2689-3232, 1800-29-3232	www.samsung.com/th/support
MYANMAR	+95-01-2399-888	www.samsung.com/support
MALAYSIA	1800-88-9999	www.samsung.com/my/support
	603-77137477 (Overseas contact)	
PHILIPPINES	1-800-10-7267864 [PLDT] 1-800-8-7267864 [Globe landline and Mobile] 02-4222111 [Other landline]	www.samsung.com/ph/support
INDIA	1800 3000 8282 - Toll Free 1800 266 8282 - Toll Free	www.samsung.com/in/support
BANGLADESH	9612300300	www.samsung.com/in/support
SRI LANKA	94117540540	www.samsung.com/support
EGYPT	08000-7267864 16580	www.samsung.com/eg/support
ALGERIA	021 36 11 00	www.samsung.com/n_africa/support
IRAN	021-8255 [CE]	www.samsung.com/iran/support
SAUDI ARABIA	8002474357	www.samsung.com/sa/support www.samsung.com/sa_en/support (English)
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TUNISIA	80-1000-12	www.samsung.com/n_africa/support
U.A.E	800-SAMSUNG (800 - 726 7864)	www.samsung.com/ae/support (English)
OMAN	800-SAMSUNG (800 - 726 7864)	
KUWAIT	183-CALL (183-2255)	www.samsung.com/ae_ar/support (Arabic)
BAHRAIN	8000-GSAM (8000-4726)	
QATAR	800-CALL (800-2255)	
JORDAN	0800-22273 06 5777444	www.samsung.com/Levant/support (English)
SYRIA	18252273	www.samsung.com/Levant/support (English)
MOROCCO	080 100 22 55	www.samsung.com/n_africa/support
SOUTH AFRICA	0860 SAMSUNG (726 7864)	www.samsung.com/support
BOTSWANA	8007260000	
NAMIBIA	08 197 267 864	
ZAMBIA	0211 350370	
MAURITIUS	23052574020	
REUNION	262508869	
MOZAMBIQUE	847267864 / 827267864	
NIGERIA	0800-726-7864	www.samsung.com/africa_en/support
Ghana	0800-10077 0302-200077	
Cote D'Ivoire	8000 0077	www.samsung.com/africa_fr/support
SENEGAL	800-00-0077	
CAMEROON	7095-0077	
KENYA	0800 545 545	
UGANDA	0800 300 300	
TANZANIA	0800 755 755 / 0685 889 900	
RWANDA	9999	
BURUNDI	200	
DRC	499999	
SUDAN	1969	

Important Safety Instructions

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Warning! Important Safety Instructions

(Please read the safety instructions below before installing and using the product.)

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place a vessel containing water (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorised dealer immediately.
- Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, and at the point where they exit from the apparatus.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply. (depending on the model)
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. Pull on the plug, not the cord, when removing the power cord from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorised dealer or service centre.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat, or cause the insulation to deteriorate.
- Be sure to contact an authorised service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances or where it will operate for 24 hours a day such as in an airport, a train station, etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily accessible at all times.
- Do not allow children to hang onto the product.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor, or a location exposed to vibration.
- Do not drop or impart a shock to the product. If the product is damaged, disconnect the power cord and contact a service centre.
- To clean the product, unplug the power cord from the power outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Do not expose the apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries.
- There is a danger of explosion if you replace the batteries with the wrong type of battery. Replace only with the same or equivalent type.
- WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Getting Started

Accessories

- Remote Control & Batteries (AAA x 2)
- Owner's Instructions
- Warranty Card (Not available in some locations) / Regulatory Guide
- Power Cord

- Wall mount Adapter (Depending on the Model)

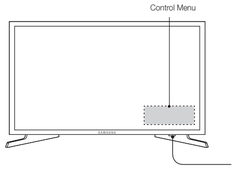
- Adapter

Input Cables (Sold Separately)

- Composite (AV)
- Component
- Coaxial (RF)
- HDMI
- HDMI-DVI

TV Controller (Panel Key)

Control Menu



- : Turns the TV on or off.
- / : Changes channels.
- / : Adjusts the volume.
- : Displays and selects the available video sources.

Remote control sensor/TV Controller

Turn on the TV using the ⏻ button on the remote control or TV panel.

✎ The product colour and shape may vary depending on the model.

✎ The TV's Controller, a small joystick-like button at the right bottom of the TV, lets you control the TV without the remote control.

✎ With the TV's Controller, you cannot perform other operations except for turning the TV on or off, changing the channel, adjusting the volume, and switching the input source.

Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Plug the power cord into a wall outlet, and then press the POWER button to turn on the TV. Set the initial setup following instructions that the TV guides.

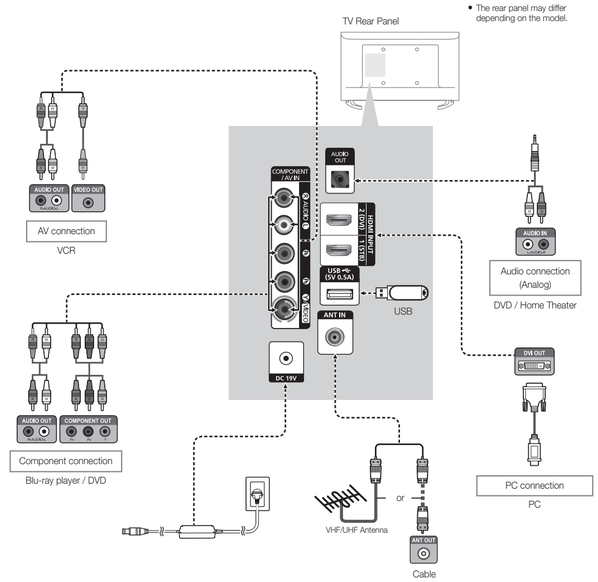
✎ If you are not using a cable box or satellite box, make you sure have connected the TV to an Aerial or cable connection before you turn on the TV.

✎ Connecting the power cord and antenna. (refer to 'Connections')

Connections

- For better picture and audio quality, connect to a digital device using an HDMI cable.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- **PC / DVI AUDIO IN** input is not supported.
- For HDMI/DVI cable connection, you must use the HDMI INPUT 2 (DVI) port.
- Connecting through the HDMI cable may not be supported depending on the PC.
- If an HDMI to DVI cable is connected to the HDMI INPUT 2 (DVI) port, the audio does not work.
- For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI INPUT 1 (STB) port.

- The rear panel may differ depending on the model.



Changing the Input Source

Source List

Use to select TV or other external input sources such as DVD / Blu-ray players / cable box / STB satellite receiver connected to the TV.

1. Press the SOURCE button.
2. Select a desired external input source.

■ **TV / AV1 / AV2 / Component / HDMI1 / HDMI2/DVI**

✎ You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.

How to use Edit Name

Edit Name lets you associate a device name to an input source. To access **Edit Name**, enter **Support** menu and select **Edit Name**. Name the device connected to the input jacks to make your input source selection easier.

✎ When connecting a PC to the HDMI INPUT 2 (DVI) port with HDMI cable, you should set the TV to PC mode under **Edit Name**.

✎ When connecting a PC to the HDMI INPUT 2 (DVI) port with HDMI to DVI cable, you should set the TV to DVI PC mode under **Edit Name**.

✎ When connecting an AV devices to the HDMI INPUT 2 (DVI) port with HDMI to DVI cable, you should set the TV to DVI mode under **Edit Name**.

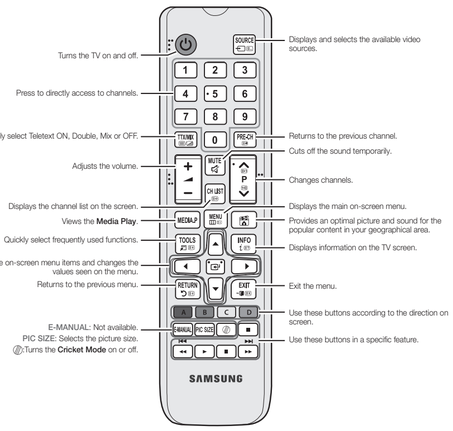
Information

Press INFO(INFO), you can see detailed information about the selected external device.

✎ Information only available for the current connected source.

Remote Control

✎ This remote control has Braille points on the Power, Channel, Volume and Enter buttons and can be used by visually impaired persons.


Turns the TV on and off.
Press to directly access to channels.
Alternately select Teletext ON, Double, Mix or OFF.
Adjusts the volume.
Displays the channel list on the screen.
Views the Media Play.
Quickly select frequently used functions.
Selects the on-screen menu items and changes the values seen on the menu.
Returns to the previous menu.
E-MANUAL: Not available.
PIC SIZE: Selects the picture size.
Turns the Cricket Mode on or off.
SOURCE
Displays and selects the available video sources.
Returns to the previous channel.
Cuts off the sound temporarily.
Changes channels.
Displays the main on-screen menu.
Provides an optimal picture and sound for the popular content in your geographical area.
Displays information on the TV screen.
Exit the menu.
Use these buttons according to the direction on screen.
Use these buttons in a specific feature.
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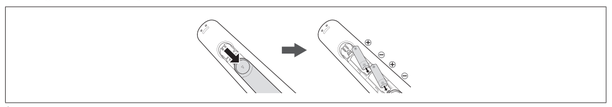
Display Modes (HDMI/DVI Input)

Optimal resolution
4 series:1366 x 768@60Hz,1600 x 900@60Hz

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 768
IBM	720 x 400	31.469	70.087	28.322	-/+	✓
MAC	640 x 480	35.000	66.667	30.240	-/-	✓
	832 x 624	49.726	74.551	57.284	-/-	✓
	1152 x 870	68.681	75.062	100.000	-/-	
VESA DMT	640 x 480	31.469	59.940	25.175	-/-	✓
	640 x 480	37.861	72.809	31.500	-/-	✓
	640 x 480	37.500	75.000	31.500	-/-	✓
	800 x 600	37.879	60.317	40.000	+/+	✓
	800 x 600	48.077	72.188	50.000	+/+	✓
	800 x 600	46.875	75.000	49.500	+/+	✓
	1024 x 768	48.363	60.004	65.000	-/-	✓
	1024 x 768	56.476	70.069	75.000	-/-	✓
	1024 x 768	60.023	75.029	78.750	+/+	✓
	1152 x 864	67.500	75.000	108.000	+/+	
	1280 x 720	45.000	60.000	74.250	+/+	✓
	1280 x 800	49.702	59.810	83.500	-/+	
	1280 x 1024	63.981	60.020	108.000	+/+	
	1280 x 1024	79.976	75.025	135.000	+/+	
	1366 x 768	47.712	59.790	85.500	+/+	✓
	1440 x 900	55.935	59.887	106.500	-/+	
	1600 x 900RB	60.000	60.000	108.000	+/+	
	1680 x 1050	65.290	59.954	146.250	-/+	
	1920 x 1080	67.500	60.000	148.500	+/+	

Installing batteries (Battery size: AAA)



✎ NOTE

- Use the remote control within 7 m from TV.
- Bright light may affect the performance of the remote control. Avoid using nearby special fluorescent light or neon signs.
- The Colour and shape may vary depending on the model.

Channel Menu

❑ Seeing Channels

Channel List

Select a channel in the **All Channels**, **Added Channels** screen by pressing the ▲/▼ buttons, and pressing the ENTER↵ button. Then you can watch the selected channel.

✎ Using the remote control buttons with the **Channel List**

Channel Status Display icons

Icons	Operations
⊠	A channel deleted.

❑ Retuning Channels

Area

You can change the desired area.

Auto Store

(Depending on the country)
Scan mode for Southwest Asia: Full/Turbo
Scans for a channel automatically and stores in the TV.

Manual Store

Scans for a channel manually and stores in the TV.

✎ According to channel source, **Manual Store** may be supported.

✎ **Programme**, **Colour System**, **Sound System**, **Channel**, **Search**, **Store**: If there is abnormal sound or no sound, reselect the sound standard required.

Channel List Option Menu

Set each channel using the **Channel List** menu options (**Add** / **Delete**). Option menu items may differ depending on the channel status.
Set each channel using the **Channel List** menu options. Option menu items may differ depending on the channel status.

■ **Add** / **Delete**: Delete or add a channel to display the channels you want.

✎ All deleted channels will be shown on the **All Channels** menu.

✎ A "✕" beside the channel indicates the channel has been deleted.

✎ The **Add** menu only appears for deleted channels.

Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

✎ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

✎ This is available for analogue broadcasts only.

Picture Menu

Picture Mode TOOLS↵

Select your preferred picture type.

■ **Dynamic**: Suitable for a bright room.
■ **Standard**: Suitable for a normal environment.
■ **Movie**: Suitable for watching movies in a dark room.

Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options for picture quality control.

✎ In analogue **TV**, **AV** modes of the PAL system, the **Tint (G/R)** function is not available.

✎ When connecting a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.

✎ Settings can be adjusted and stored for each external device connected to the TV.

✎ Lowering picture brightness reduces power consumption.

Picture Options

■ **Colour Tone**: Select the colour temperature.

✎ **Warm** will be deactivated when the picture mode is **Dynamic**.

■ **Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use **16:9** mode most of the time.
16:9: Sets the picture to 16:9 wide mode.
4:3: Sets the picture to basic (4:3) mode.
Zoom1/Zoom2: Zoom out 16:9 wide mode vertically to fit the screen size.
Screen Fit: Displays the full image without any cut-off when HDMI(720p/1080i/1080p) signals are inputted.
Custom: Magnifies or shrinks 16:9 pictures vertically and/or horizontally. A magnified or shrunk picture can be moved left, right, up, and down.

✎ Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention (screen burn) which are not covered by the warranty.

✎ NOTE

- Depending on the input source, the picture size options may vary.
- The available items may differ depending on the selected mode.
- Settings can be adjusted and stored for each external device connected to an input on the TV.

■ **Digital Clean View**: (**Auto** / **Off** / **Low** / **Medium** / **High**) If the broadcast signal received by your TV is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting that may appear on the screen.

✎ When the signal is weak, try other options until the best picture is displayed.

■ **HDMI Black Level**: Selects the black level on the screen to adjust the screen depth.

✎ Available only in **HDMI** mode (RGB signals).

■ **Film Mode**: (**Auto** / **Off**) Sets the TV to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

✎ Available in TV mode, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

■ **Motion Lighting**: Reduce power consumption by brightness control adapted motion.

✎ Only available in **Standard** mode.

Picture Reset

Resets your current picture mode to its default settings.

Sound Menu

Sound Mode TOOLS↵

■ **Standard**: Selects the normal sound mode.
■ **Music**: Emphasise music over voices.
■ **Movie**: Provides the best sound for movies.
■ **Clear Voice**: Emphasise voices over other sounds.

Equalizer

(standard sound mode only)

■ **Balance**: Adjusts the balance between the right and left speaker.
■ **100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment)**: Adjusts the level of specific bandwidth frequencies.
■ **Reset**: Resets the **Equalizer** to its default settings.

DTS TruSurround HD TOOLS↵

(standard sound mode only)
This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

Auto Volume

Because each broadcasting station has its own signal conditions, the volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

Speaker Select

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

✎ When you set **Speaker Select** to **External Speaker**, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker**, both the TV's speakers and the external speakers are on. You will hear sound through both.

✎ When **Speaker Select** is set to **External Speaker**, the volume and MUTE buttons will not operate and the sound settings will be limited.

✎ If there is no video signal, both speakers will be mute.

TV Installation Type

This is the feature that set sound filter to fit into the installation condition of TV. Adjust TV Sound to suit either stand or Wall Mount Installation.

Sound Reset

Reset all sound settings to the factory defaults.

Selecting the Sound Mode TOOLS↵

When you set to **Dual I-Dual II**, the current sound mode is displayed on the screen.

	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	
	Dual	Dual I ↔ Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	
	Dual	Mono ↔ Dual I ↘ Dual II ↙	Dual I

✎ If the stereo signal is weak and an automatic switching, occurs, then switch to the mono.

✎ Only activated in stereo sound signal.

✎ This function is available for all input sources.

Setup Menu

Language

Set the menu language.

✎ Press ▲ or ▼ button to select menu language. (According to the different areas, some countries have only one language.)

Time

✎ The current time will appear every time you press the INFO button.

■ **Clock Set**: Set the **Year**, **Month**, **Day**, **Hour**, **Minute**.
■ **On Time/Off Time**

✎ Current time should be set first by **Clock Set**.

Repeat: Set the timer to repeat by **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun**, **Sun**.
Select **Off** to turn of **Repeat**.
Hour/Minute: Enter the hour and minute for the TV to turn on or off.
Contents: Select TV.
Channel: Select the channel to be played when the TV turns on automatically.
Volume: Select the volume level when TV turns on automatically.

■ **Sleep Timer** TOOLS↵

Automatically shuts off the TV after a preset period of time. (**Off**, **30 min**, **60 min**, **90 min**, **120 min**, **150 min** and **180 min**)

✎ To cancel **Sleep Timer**, select **Off**.

Melody

Set so that a melody plays when the TV is turned **Off**, **Low**, **Medium** and **High**.

✎ The **Melody** does not play.

- When no sound is output from the TV because the volume has been reduced to minimum with the VOL – button.
- When the TV is turned off by **Sleep Timer** function.

Auto Power Off

The TV will be automatically turned off when no user operation is received for 4 hours.

✎ If the **Auto Power Off** option is set to **Off**, the TV will stay on even if no operations are performed on the TV.

Self Diagnosis

The Broadcast Signal Self Diagnosis menu provides **Picture Test**, **Sound Test**, and Signal Information functions to evaluate TV problems and to show the signal strength.

- **Picture Test**: Use to check for picture problems.
- **Sound Test**: Use the built-in melody sound to check for sound problems.
- **Reset**: Reset all settings to the factory defaults except network settings.

✎ Choose to restore factory Settings, TV will automatically shut down, and then restart.

❑ Game Mode

Game Mode (**Off** / **On**):When you have connected a game console such as PlayStation™ or Xbox™ to the TV, you can enjoy a more realistic gaming experience if you set **Game Mode** on.

- Precautions and limitations for **Game Mode**
  - Before disconnecting a game console and connecting another external device, set **Game Mode** to **Off**.
  - If you display the TV menu in **Game Mode**, the screen shakes slightly.
  - **Game Mode** is not available when you've set the input source to **TV**.
  - Set **Game Mode** to **On** only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice reduced picture quality.
  - If **Game Mode** is **On**, **Picture Mode** is set to **Game Mode** and **Sound Mode** is set to **Game Mode**.

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Support Menu

❑ Using the Media Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the **USB** jack on the side of the TV.
3. When USB is connected to the TV, you can select **Media Play**.

✎ The maximum displayed number of partition is 4.

Using the Media Play (USB) Menu

1. Press the MENU button. Press the ▲ or ▼ button to select **Support**, then press the ENTER↵ button.
2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the ENTER↵ button.
3. Press the ◄ or ► button to select an icon (**Videos**, **Music**, **Photos**), then press the ENTER↵ button.

✎ It might not work properly with unlicenced multimedia files.

✎ If you want to view detailed information of the file being played, press TOOLS button in the file list, and then select **Information**.

✎ Need-to-Know List before using **Media Play (USB)**

- Supported file systems are FAT and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. Does not support smart devices connected in MTP or PTP protocol.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- A USB device that requires high power may not be supported.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
- If a USB extension cable is used, the USB device may not be recognised or the files on the device may not be read.
- The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.
- PTP device is not supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognised or may malfunction.
- The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV.
- If a USB device connected to the TV is not recognised, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- **Photos** only supports sequential jpeg format.
- The scene search and thumbnail functions are not supported in the **Videos**.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 1000.
- The media may not be playing smoothly when using the device higher than USB 2.0.

✎ The maximum displayed number of partition is 4.

- The file name only works in supported menu language. The other language is not displayed properly.

■ **Videos**

1. Press the ◄ or ► button to select **Videos**, then press the ENTER↵ button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ buttons to select the desired video in the file list.
3. Press the ENTER↵ button or (▶) (Play) button.
   - The selected file is displayed on the top with its playing time.
   - If video time information is unknown, playing time and the progress bar are not displayed.
   - During video playback, you can search using the ◄ and ► button.
   - You can use ◀◀ (REW) and ▶▶ (FF) buttons during playback.

✎ In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

- Supported Subtitle Formats

  - External

Name	File extension
MPEG-4 timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

  - Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

- Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DivX 3.11/4.12/5.x/6.0	1920x1080	6~30	20Mbps	MP3 / ADPCM / AAC
		H.264	1920x1080	6~30	20Mbps	
		VC-1	1920x1080	6~30	20Mbps	
		MJPEG	640x480	6~30	10Mbps	
*.avi *.mkv	AVI MKV	DivX 3.11/4.12/5.x/6.0	1920x1080	6~30	20Mbps	MP3 / AC3 / LPCM / ADPCM / DTS
		MPEG 1/2/4	1920x1080	6~30	20Mbps	
		H.264	1920x1080	6~30	20Mbps	
		MJPEG	640x480	6~30	10Mbps	
*.asf *.wmv	ASF	DivX 3.11/4.12/5.x/6.0	1920x1080	6~30	20Mbps	MP3 / AC3 / LPCM /ADPCM / WMA / WMA Pro
		MPEG 1/2/4	1920x1080	6~30	20Mbps	
		H.264	1920x1080	6~30	20Mbps	
*.ts *.tp *.tp	TS	MPEG2-TS	1920x1080	6~30	20Mbps	AC3 / AAC / MP3 / DD+
		H. 264	1920x1080	6~30	20Mbps	
*.dat *.mpg *.mpeg *.vob	PS	MPEG1	1920x1080	6~30	20Mbps	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	6~30	20Mbps	
		H. 264	1920x1080	6~30	20Mbps	
*.3gp	3GPP	MPEG 1/2/4	1920x1080	6~30	20Mbps	MP3
		H.264	1920x1080	6~30	20Mbps	
*.flv	flash formats	Sorenson H.263	1920x1080	6~30	20Mbps	MP3

Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content can not be played, if there are many contents in one file.

Video Decoder
Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. MPEG4 SP, ASP : – **Below 1280 x 720**: 60 frame max – **Above 1280 x 720**: 30 frame max H.263 is not supported. GMC is not support.

Audio Decoder
Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported) WMA Lossless is not supported.

■ **Music**

1. Press the ◄ or ► button to select **Music**, then press the ENTER↵ button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ buttons to select the desired Music in the file list.
3. Press the ENTER↵ button or (▶) (Play) button.

✎ During music playback, you can search using the ◄ and ► button.

✎ ◀◀ (REW) and ▶▶ (FF) buttons do not function during play.

✎ Only displays the files with MP3 file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

✎ If the need to change **Equalizer** - when playing MP3, then exit **Media Play**, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

■ **Photos**

1. Press the ◄ or ► button to select **Photos**, then press the ENTER↵ button in the **Media Play** menu.
2. Press the ◄/►/▲/▼ buttons to select the desired photo in the file list.
3. Press the ENTER↵ button or (▶) (Play) button.

✎ **NOTE**

- While a photo list is displayed, press the (▶) (Play) / ENTER↵ button on the remote control to start the slide show.
- All files in the file list section will be displayed in the slide show.
- During the slide show, files are displayed in order.
- During the slide show, you can adjust the slide show speed using ◀◀ (REW) or ▶▶) (FF) button.
- You can move to other file using ◄ or ► button.

✎ Press TOOLS button and select **Background Music**. Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

✎ The **Mode** in **Background Music** cannot be changed until the BGM has finished loading.

- Supported Photo Formats

Image	Photo	Resolution
JPEG	Base-line	15360 x 8704
	Progressive	1024 x 768

Other Restrictions

CMYK, YCCK Colour space JPEG are not supported.

■ **Playing Multiple Files**

Playing selected video/music/photo files

1. Press the Yellow button in the file list to select the desired file.
2. Repeat the above operation to select multiple files.

✎ **NOTE**

- The ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the TOOLS button and select **Deselect All**.

■ **Playing the video/music/photo file group**

While a file list is displayed, move to any file in desired group.

■ **Media Play - Additional Functions**

Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button.

Category	Operation	Videos	Music	Photos
Title	You can move the other file directly.	✓		
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	
Picture Size	You can adjust the picture size to your preferences.	✓		
Picture Mode	You can adjust the picture setting.	✓		✓
Sound Mode	You can adjust the sound setting.	✓	✓	
Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓		
Audio language	You can change the audio language if the video has more than one language.	✓		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓
Background Music	You can set and select background music when watching a Slide Show.			✓
Zoom	You can zoom into images in full screen mode.			✓
Rotate	You can rotate images in full screen mode.			✓
Information	You can see detailed information about the played file.	✓	✓	✓

❑ Using the Sports Mode / Cricket Mode

Cricket Mode TOOLS

This mode provides optimised condition for watching sports games.

A Zoom: Pause playback and dived the picture into 9 parts. Select a part to zoom it in. Press this button again to resume.

✎ When **Sports Mode / Cricket Mode** is **On**, the picture and sound modes are set to **Stadium** automatically.

✎ If you turn the TV off while watching **Sports Mode / Cricket Mode**, the **Sports Mode / Cricket Mode** will be disable.

✎ Mode name may vary depending on nations. **Cricket Mode**, **Soccer Mode**, **Sports Mode**.

❑ Indian Cinema Mode

Using the Indian Cinema Mode

When you set **Indian Cinema Mode** to **On**, the TV provides an optimal picture and sound for popular content.

✎ This function is only available in specific geographical areas.

❑ Default Recording Device

You can set the default device for saving captured image files and recorded audio files.

✎ This function is only available when the USB device is connected the TV, and **Joy Plus Feature** mode is on.

❑ Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from "www.samsung.com" to a USB memory device.

❑ Changing the Use Mode

Select the **Use Mode** suitable for your place. We strongly recommend you select **Home Use**.

- **Home Use**: Home Use is the default setting.
- **Store Demo**: **Store Demo** is for retail environments only. If you select **Store Demo**, some functions will not work, and the picture settings will be reset every 5 minutes.

❑ DivX® Video On Demand

Shows the registration code authorised for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using **Media Play**, the registration is completed.

✎ For more information on DivX® VOD, visit http://vod.divx.com.

❑ HD Connection Guide

You can read a guide to connect external devices for HD sources.

❑ Contact Samsung

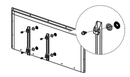
View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

Other Information

Installing the Wall Mount

The wall mount kit (sold separately) allows you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advice you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the TV on your own.



Wall mount Adapter
(Depending on the Model)

Before installing any other wall mounting kit, assemble the wall mount adapter provided separately with the TV.

Wall Mount Kit Specifications (VESA)

✎ The wall mount kit is not supplied, but sold separately.

✎ Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

✎ **NOTE**

- Standard dimensions for wall mount kits are shown in the table to below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV on a wall.

Product Family	Models	VESA scew hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	UA32J4003	200 X 200	M8	4

Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To prevent the TV from falling

✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.

✎ You may need additional material such as an anchor depending on the type of wall.

✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

2. Remove the screws from the back Centre of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.

✎ Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.

3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.

✎ **Note**

- Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
- Untie the string before moving the TV.

4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use.

✎ Please find a "🔒" icon on the rear of the TV. The Kensington slot is beside the "🔒" icon.

✎ The position and colour may differ depending on the model.

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product.
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the TV model.

Troubleshooting

If you have any questions about the TV, first refer to this list. If none of these troubleshooting tips apply, please visit "www.samsung.com," then click on Support, or contact the call centre listed on the back-cover of this manual.

Problem	Possible Solution
Picture Quality	
The TV image does not look as good as it did in the store.	• If you have an analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. • Antenna connection: Try HD stations after performing Auto tuning. ✎ Many HD channels are up scaled from SD(Standard Definition) contents. • Adjust the Cable/Set top box video output resolution to 1080i or 720p. • Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.
The picture is distorted: macroblock error, small block, dots, pixelization	• Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. • Low signal level or bad quality can cause picture distortion. This is not a TV issue. • Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analogue and digital TV.
Colour is wrong or missing.	• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
There is poor colour or brightness.	• Adjust the **Picture** options in the TV menu. (go to **Picture Mode** / **Colour** / **Brightness** / **Sharpness**) • Try resetting the picture to view the default picture settings. (go to MENU - **Picture** - **Picture Reset**)
There is a dotted line on the edge of the screen.	• If the picture size is set to **Picture Options**, change it to **16:9**. • Change cable/satellite box resolution.
The picture is black and white.	• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	• If connected with a cable box, please try to reset the cable box. Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes. • Set the output resolution of the cable box to 1080i or 720p.
Sound Quality	
There is no sound or the sound is too low at maximum volume.	• Please check the volume of external device connected to your TV.
The picture is good but there is no sound.	• Set the **Speaker Select** option to **TV Speaker** in the sound menu. • If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV. • If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). • If you are using a HDMI cable, a separate audio cable is required. • If your TV has a headphone jack, make sure there is nothing plugged into it.
The speakers are making an inappropriate noise.	• Check the cable connections. Make sure a video cable is not connected to an audio input. • For antenna or cable connections, check the signal strength. Low signal level may cause sound distortion.
No Picture, No Video	
The TV will not turn on.	• Make sure the AC power cord is securely plugged in to the wall outlet and the TV. • Make sure the wall outlet is working. • Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "The remote control does not work" below.
The TV turns off automatically.	• Ensure the **Sleep Timer** is set to **Off** in the **Time** menu. • If your PC is connected to the TV, check your PC power settings. • Make sure the AC power cord is plugged in securely to the wall outlet and the TV. • When watching TV from an antenna or cable connection, the TV will turn off after 10 – 15 minutes if there is no signal.
There is no picture/video.	• Check cable connections (remove and reconnect all cables connected to the TV and external devices). • Set your external devices' (Cable/Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. • Make sure your connected devices are powered on. • Be sure to select the TV's correct source by pressing the SOURCE button on the TV remote.

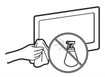
Problem	Possible Solution
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	• Make sure the Antenna cable is connected securely. • Please try **Setup** (Plug & Play) to add available channels to the channel list. Go to MENU - **System** - **Setup** (Plug & Play) and wait for all available channels to be stored. • Verify the Antenna is positioned correctly.
The picture is distorted: macroblock error, small block, dots, pixelization	• Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies. • A low signal can cause picture distortion. This is not a TV issue.
PC Connection	
A "**Mode Not Supported**" message appears.	• Set your PC's output resolution so it matches the resolutions supported by the TV.
The video is OK but there is no audio.	• If you are using a HDMI connection, check the audio output setting on your PC.
Others	
The picture will not display in full screen.	• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars on the top and bottom will appear during movies that have aspect ratios different from your TV. • Adjust the picture size options on your external device or TV to full screen.
The remote control does not work.	• Replace the remote control batteries with the poles (+/–) in the right direction. • Clean the transmission window located on the top of the remote control. • Try pointing the remote directly at the TV from 5–6 feet away.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	• Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.
A "**Mode Not Supported**" message appears.	• Check the supported resolution of the TV, and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
There is a plastic smell from the TV.	• This smell is normal and will dissipate over time.
TV is tilted to the right or left side.	• Remove the stand base from the TV and reassemble it.
There are difficulties assembling the stand base.	• Make sure the TV is placed on a flat surface. It is necessary to use magnetized screw driver if you cannot remove the screws from the TV.
The **Broadcasting** menu is grey out (unavailable).	• The **Broadcasting** menu is only available when the TV source is selected.
Your settings are lost after 5 minutes or every time the TV is turned off.	• If the TV is in the **Store Demo** mode, it will reset audio and picture settings every 5 minutes. If you want to change the settings from **Store Demo** mode to **Home Use**.
You have intermittent loss of audio or video.	• Check the cable connections and reconnect them. • Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the TV.	• This is part of the product's design and is not a defect.
There are recurrent picture/sound issues.	• Check and change the signal/source.
A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.	• To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.

✎ This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

✎ You can keep your TV as optimum condition upgrading the latest firmware on web site (www.samsung.com → Support) by USB.

Storage and Maintenance

✎ If you remove the attached sticker on the TV screen, clean the residues and then watch TV.



Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.

Clean the product with a soft cloth dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

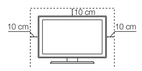
✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.

* If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

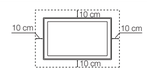
✎ The appearance may differ depending on the product.

✎ Be careful when you contact the TV because some parts can be somewhat hot.

Installation with a stand.



Installation with a wall-mount.



Licence

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.
To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu.
DivX Certified® to play DivX® video up to HD 720p, including premium content.
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Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing
Model Name	UA32J4003
Display Resolution	1366 X 768
Screen Size	81 cm
Sound Output	 5W X 2
Dimensions (W x H x D) Body With stand	 74.5 x 44.2 x 6.9 cm 74.5 x 46.6 x 15.0 cm
Weight Without Stand With stand	 3.73 kg 3.82 kg

✎ Design and specifications are subject to change without prior notice.

✎ For information about the power required and more about power consumption, refer to the label attached to the product.

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